

TOTAL, FIXED, AND VOLATILE SOLIDS IN SOLID AND SEMISOLID SAMPLES SM 2540 G 18th/21ST						Page 1 of 1
Facility Name: _____ VELAP ID: _____						
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____						
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments	
<i>Records Examined:</i> SOP Number/ Revision/ Date _____ Analyst: _____						
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____						
Were at least 10% of the samples or at least one sample per batch analyzed in duplicate?	2020 Quality Assurance/Quality Control					
Did duplicate determinations agree to within 5% of their average weights?	2540 G 3 a 2 a					
Was a blank run with each batch or every 5% of samples?	1020 B 4 Quality Control					
Were samples refrigerated at 4°C between collection and analysis?	2540 A 3 Solids Introduction					
Was sample holding time within 7 days?	2540 A 3 Solids Introduction					
Were samples brought to room temperature prior to analysis?	2540 A 3 Solids Introduction					
If volatiles were analyzed, were evaporating dishes ignited for 1 hour prior to use at the appropriate temperature? SM 21 st : 550°C. SM 18 th : 500 ± 50°C	2540 G 3 a 1					
If only total solids were measured, were evaporating dishes dried at 103-105°C for 1 hour prior to use?	2540 G 3 a 1					
Were dishes stored in a desiccator between preparation and use?	2540 G 3 a 1					
For TS on fluid samples, were homogenized sample aliquots of 25 to 50 g weighed into evaporating dishes and then dried at 103 to 105°C for 1 hour?	2540 G 3 a 2 a					
For TS on solid samples, were weighed sample aliquots weighed into evaporating dishes and placed in an oven at 103 to 105°C overnight?	2540 G 3 a 2 b					
For fixed and volatile solids, were dried residues from above steps ignited at 550°C (21 st Ed.) or 500 ± 50°C (18 th Ed.) for one hour and cooled in a desiccator?	2540 G 3 b					
Were the heating, cooling, and desiccating cycles repeated until the weight changes were less than the smaller of 4% or 50 mg?	2540 G 3 a 2					
Notes/Comments:						

